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Preface

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Published in:
International RILEM Conference on Materials, Systems and Structures in Civil Engineering

Publication date:
2016

Document Version
Publisher's PDF, also known as Version of record

Link back to DTU Orbit

Citation (APA):
Jensen, O. M., Kovler, K., & De Belie, N. (2016). Preface. In International RILEM Conference on Materials, Systems and Structures in Civil Engineering: Conference segment on Concrete with Supplementary Cementitious Materials (pp. XI-XI). RILEM Publications s.a.r.l..

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Preface

The conference "Materials, Systems and Structures in Civil Engineering – MSSCE 2016" is part of the RILEM week 2016, which consists of a series of parallel and consecutive conference and doctoral course segments on different topics as well as technical and administrative meetings in several scientific organizations. The event is hosted by the Department of Civil Engineering at the Technical University of Denmark and the Danish Technological Institute and it is held at the Lyngby campus of the Technical University of Denmark 15-29 August 2016.

This volume contains the proceedings of the MSSCE 2016 conference segment on "Concrete with Supplementary Cementitious Materials" (SCM). The conference segment is organized by the RILEM technical committee TC 238-SCM: *Hydration and microstructure of concrete with supplementary cementitious materials*. TC 238-SCM started activities in 2011 and has about 50 members from all over the world. The main objective of the committee is to support the increasing utilisation of hydraulic and pozzolanic industrial by-products, natural resources and societal waste to obtain more sustainable, less CO_2-intensive binders for the construction industry. The TC serves as a knowledge platform where fundamental science and practical expertise are gathered to create a horizontal overview of the research area and to implement and promote the dissemination of more integrated generic approaches into the scientific community. One of the main challenges of the TC is to deal with SCM variability and binder diversification.

Some of the papers in these proceedings origin from the work in two COST actions: TU 1404 *Service Life of Cement-based Materials and Structures* and TU 1301 *NORM for Building Materials*. The papers from COST TU 1404 are spread across several MSSCE 2016 conference segments and it is planned that a separate set of electronic proceedings for this COST action will be published after the conference.

The present conference segment deals with theory, modeling, and results from experimental investigations with relation to the use of SCMs in concrete. The topics covered include characterization of SCMs, SCM reactivity in blended cements, cement-SCM interaction, SCM-admixture interaction, hydration products, pore solution composition, effect of SCM on fresh concrete, hardened concrete with SCM, SCM influence on microstructure and durability of concrete with SCM. All these topics have relation to the aforementioned RILEM technical committee 238-SCM. The conference segment is attended by more than 40 presenters from university, industry and practice representing 30 different countries. Hopefully, it will contribute to synthesis of research on concrete with SCMs and promote knowledge transfer from academia to practice. All contributions have been peer reviewed.

Ole Mejlhede Jensen **Konstantin Kovler** **Nele De Belie**

August 2016, Lyngby, Denmark